

# CONTAINS NO CEI

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Comprehensive Assessment Information Rule REPORTING FORM

When completed, send this form to:

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Document

Control Number: \_\_\_\_

Docket Number:

EPA Form 7710-52

	•	SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	A	GENERAL REPORTING INFORMATION
1.01		is Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
<u>CBI</u>	CO	mpleted in response to the Federal Register Notice of $[\frac{1}{2}]$ $[\frac{2}{2}]$ $[\frac{2}{8}]$ $[\frac{8}{9}]$
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No
	ъ.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule NA
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule NA
		CAS No. of chemical substance [_]_]_]_]_]_]_]_[]-[_]
		Name of chemical substance
1.02 CBI		entify your reporting status under CAIR by circling the appropriate response(s).
		orter 2
		cessor
		manufacturer reporting for customer who is a processor
	, [	processor reporting for customer who is a processor
	Mark	(X) this box if you attach a continuation sheet.
		- you without a continuation Sneet.

1.03 CBI		es the substance you are reporting on have an " $x/p$ " designation associated with it the above-listed Federal Register Notice?
[_]	Yes	$\left[ \overline{X} \right]$ Go to question 1.02
	NO	
1.04 CBI	a.	Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.
		Yes
[_]		No
·	b.	Check the appropriate box below:
		[_] You have chosen to notify your customers of their reporting obligations
		Provide the trade name(s)
		[_] You have chosen to report for your customers
		You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.
1.05 CRT	If y	you buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name.
CBI		de name Wingfil Part A
· 1	Is	the trade name product a mixture? Circle the appropriate response.
	Yes	
	No .	
1.06	Cer sign	rification The person who is responsible for the completion of this form must the certification statement below:
	"I h	nereby certify that, to the best of my knowledge and belief, all information ered on this form is complete and accurate."
	Bi	1/ R Thompson Sell & homeson 6/22/89 NAME SIGNATURE DUTE SIGNED
	1	TITLE (816) 483 - 3070 TELEPHONE NO.
XI H	ark	(X) this box if you attach a continuation sheet.

CBI	Exemptions From Reporting - with the required informati within the past 3 years, ar for the time period specifi are required to complete se now required but not previous submissions along with your	on on a CAI d this info ed in the r ection 1 of ously submit	R Representation Repr	orting Form for the on is current, accur then sign the certification form and provide a copy of a	listed substance cate, and complete fication below. You de any information
	"I hereby certify that, to information which I have not to EPA within the past 3 yes period specified in the rul	et included ears and is	in th	is CAIR Reporting Fo	orm has been submitted
	NA				
	NAME	•		SIGNATURE	DATE SIGNED
	TITLE	(	) _	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08 <u>CBI</u> []	CBI Certification If you certify that the following those confidentiality claim "My company has taken measure and it will continue to take been, reasonably ascertainal using legitimate means (other a judicial or quasi-judicial information is not publicly would cause substantial harman	statements us which you ares to prot te these mea able by othe aer than dis al proceeding available	ect t sures r per cover g) wi elsew	fully and accurately asserted.  he confidentiality of the information is sons (other than gover based on a showing thout my company's othere; and disclosure	of the information, so not, and has not vernment bodies) by g of special need in consent; the
	NAME			CTCNAMIDE	D. MD. OXONDO
	TITLE	(	)	SIGNATURE  - TELEPHONE NO.	DATE SIGNED
[_]	Mark (X) this box if you att	ach a conti	nuati	on sheet.	

PART	B CORPORATE DATA
1.09	Facility Identification
CBI	Name (6)0101019181AIN1_10101M1M18171/1RIE1/1818171/16181
[_]	Address [] 5 0 7 1 1 1 1 C 0 R R I 1 N 9 7 0 N 1 A V E 1 1 1 1 1 1
	[K]A]N]5]A]5]_[C]Z]Z]4]_[M[O]_]_]_[]_]_]_]_]_]
	[ <u>M</u> ] <u>J</u> ] [ <u>6</u> ] <u>4</u> ] <u>7</u> ] <u>2</u> ] <u>0</u> ][]]]]
	Dun & Bradstreet Number       []]-[]]-[]]-[]]-[]]         EPA ID Number       []]]-[]]-[]-[]-[]-[]-[]-[]-[]-[]-[]-[]-[
	Primary Standard Industrial Classification (SIC) Code
1.10	Other SIC Code
-	Company Headquarters Identification
( <u></u> ]	Name $[T] h e   G o o d y e a r   F i r e & R u b b e r   G o o d y e a r e s e s e s e s e s e s e s e s e s e$
	(A k r o n
	$ \begin{array}{c c} \hline \boxed{0} \\ \hline \text{State} \end{array} $ $ \begin{array}{c c} \hline \boxed{4} \\ \hline \boxed{4} \\ \hline \boxed{4} \\ \hline \boxed{5} \\ \hline \boxed{2} \\ \hline \boxed{1} \end{array} $
	Dun & Bradstreet Number
	Employer ID Number
[_]	Mark (X) this box if you attach a continuation sheet.

1.11	Parent C	ompany Identifi	cation							
CBI		<u>                                      </u>								
11	Address	[1][4][4]	_l <u>Elals</u> ]	<u>t]]]M</u>	Stree	<u>e   t                                   </u>	] <u>S</u> ] <u>t</u>	<u>r le</u>	le lt	1_1_1
		[Alklrlal]		_1_1_1		]_]_]_]		]1_	_11_	1_1_1
					$\frac{\overline{0}}{\text{State}}$	[4]	1311	1 <u>6</u> 1-	-( <u>0</u> 1 <u>0</u>	<u>]                                    </u>
	_Dun & Br	adstreet Number			• • • • • • • • •	. <u>[ ] ] ]</u> ]	-[4]4	<u>.</u>	( <u>7</u> 1 <u>9</u> 1	2141
1.12	Technical	Contact			· · · · · · · · · · · · · · · · · · ·			.*		•
CBI	Name [ <b>B</b>	1/12/21/1	2]_] <u>_</u> 7] <u>#</u> ]	omp.	5 0 11/	11	]_]_]	_]_	]_]_]	11
[_]	Title [	MAIGIE		_1_1_1	111	_1_1_	1_1_1	1	]_]]	_1_1
	Address	[7]0]0]0]9	]]WE	<u>s</u> ] <u>T</u> ]_}	91 <u>5</u> 1 <u>7</u> 1 Stree	<u>/</u> 1_1 <u>5</u>	] <u>7</u> ]_]	1	][_]	
		OVER	A ND	<u> </u>	<b>尼</b> I <b>尺</b> I ̄I City	11_	]_]_]	1	1_1_1	
									-	
					[ <b>Z</b> ] <u>5</u> ] State	[6]6	] <u>Z</u> ] <u>/</u> ]	<b>∠</b> ] Zip	[_]_]	111
	Telephone	⊇ Number								<u>_</u>  _    <u>_</u>   <u>5</u>
1.13		e Number			[3			to (		_   _   _   _   _   _   _   _   _   _
1.13		orting year is	from		[3		[ <u>8</u> ] <u>8</u> ]	to (	[ <u>2</u> ] <u>6</u> 1 <u>1</u> 21 Mo.	[ <u>8</u> ] <u>8</u> Year
1.13			from		[3		( <u>8</u> ) <u>8</u> ( <u>8</u> ) <u>8</u> )	. [ <b>]</b>	1  2   1  2   Ho.	[ <u>8</u> ] <u>8</u> Year
1.13	This rep	orting year is	from		[3		( <u>8</u> ) <u>8</u> ( <u>8</u> ) <u>8</u> )	. [ <b>]</b>	[ <u>2</u> ] <u>6</u> 1 <u>1</u> 21 Mo.	[ <u>8</u> ] <u>8</u> Year
1.13	This rep	orting year is	from			[ <u>0</u> ] <u>1</u> ]	[ <u>8</u> ] <u>8</u> Year	₹]- to {	1  2   1  2   Ho.	[ <u>8</u> ] <u>8</u> Year
1.13	This rep	orting year is	from			[O]1] Ho.	( <u>8</u> ) <u>8</u> Year	₹]- to {	1  2   1  2   Ho.	[ <u>8</u> ] <u>8</u> Year
1.13	This rep	orting year is	from			[O]1] Ho.	[8]8 Year	₹]- to {	1  2   1  2   Ho.	[ <u>8</u> ] <u>8</u> Year
1.13	This rep	orting year is	from			[O]1] Ho.	[8]8 Year	₹]- to {	1  2   1  2   Ho.	[ <u>8</u> ] <u>8</u> Year

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
	NA
CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]
	(_)111111111111
	[_]_] [_]_]_]-[_]]_]-[_]]_] State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]
	Telephone Number
1.15	NA Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[
	[_]_] [_]]][_]_]_]_] State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[X]	Mark (X) this box if you attach a continuation sheet.

]	Classification	antity (kg.
	Manufactured	
	Imported	O
	Processed (include quantity repackaged)	441.6
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	NA
	For on-site use or processing	NA
	For direct commercial distribution (including export)	-NA
	In storage at the end of the reporting year	NA
	Of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	14.72
	Processed as a reactant (chemical producer)	0
	Processed as a formulation component (mixture producer)	0
	Processed as an article component (article producer)	
	Repackaged (including export)	0
	In storage at the end of the reporting year	14.72

.17 <u>3I</u>	Mixture If the listed sor a component of a mixture chemical. (If the mixture each component chemical for	ubstance on which you are rece, provide the following info composition is variable, re r all formulations.)	quired to report ormation for each port an average p	is a mixtur Component Percentage o
	Component Name	Supplier Name	Compositio (specify	age % in by Weight precision, 5% ± 0.5%)
	TDI Prepolymer	ARNCO	40 ± 5.0	
	Petroleum Hydrocarbon	ARNCO	55 ± 5.0	
	Toluene Diisocyanate	ARNCO	4.0 ± 0.	5
			Total	100%
			•	
	·			
		·		

2.04	State the quantity of the listed substance that your facility manufactured, imported, or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
<u>CBI</u>	
[_]	Year ending $(\frac{1}{2})$ $(\frac{8}{7})$ Mo. $\frac{7}{7}$ ear
	Quantity manufactured kg
	Quantity imported C
	Quantity processed
	Year ending $[\overline{1}]\overline{2}$ $[\overline{8}]\overline{6}$ $[\overline{Mo}]$ Year
	Quantity manufactured
	Quantity imported
	Quantity processed
	Year ending
	Quantity manufactured
	Quantity imported
	Quantity processed
2.05 CBI	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
	NA
·—,	Continuous process
	Semicontinuous process
	Batch process
_1	Mark (X) this box if you attach a continuation sheet.

Continuous process  Semicontinuous process  Batch process  2.07 State your facility's name-plate capacity for manufacturing or process substance. (If you are a batch manufacturer or batch processor, do not question.)  NA  Kanufacturing capacity  Processing capacity  2.08 If you intend to increase or decrease the quantity of the listed substance was an experienced, imported, or processed at any time after your current or year, estimate the increase or decrease based upon the reporting year volume.  Manufacturing Importing Quantity (kg) Quantity (kg)  Amount of increase  Amount of decrease	le all
Semicontinuous process  Batch process  2.07 State your facility's name-plate capacity for manufacturing or process substance. (If you are a batch manufacturer or batch processor, do not question.)  NA  Manufacturing capacity  Processing capacity  2.08 If you intend to increase or decrease the quantity of the listed substance and the substance of the processed at any time after your current or year, estimate the increase or decrease based upon the reporting year volume.  Manufacturing Importing Quantity (kg)  Amount of increase  Amount of decrease	
Batch process  2.07 State your facility's name-plate capacity for manufacturing or process substance. (If you are a batch manufacturer or batch processor, do not question.)  NA  Manufacturing capacity  Processing capacity  2.08 If you intend to increase or decrease the quantity of the listed substantiant and the processed at any time after your current or year, estimate the increase or decrease based upon the reporting year volume.  Manufacturing Importing Quantity (kg) Quantity (kg)  Amount of increase  Amount of decrease	
substance. (If you are a batch manufacturer or batch processor, do not question.)  NA  Manufacturing capacity  Processing capacity  2.08 If you intend to increase or decrease the quantity of the listed substance and the stimate the increase or decrease based upon the reporting year volume.  Manufacturing Importing Quantity (kg) Quantity (kg)  Amount of increase  Amount of decrease	
Manufacturing capacity  Processing capacity  2.08 If you intend to increase or decrease the quantity of the listed substantial manufactured, imported, or processed at any time after your current or year, estimate the increase or decrease based upon the reporting year volume.  []  Manufacturing Importing Quantity (kg) Quantity (kg)  Amount of increase  Amount of decrease	sing the listed ot answer this
Processing capacity  2.08 If you intend to increase or decrease the quantity of the listed substantial manufactured, imported, or processed at any time after your current or year, estimate the increase or decrease based upon the reporting year volume.  []	
2.08 If you intend to increase or decrease the quantity of the listed substantial manufactured, imported, or processed at any time after your current or year, estimate the increase or decrease based upon the reporting year volume.  []  Manufacturing Importing Quantity (kg) Quantity (kg)  Amount of increase  Amount of decrease	kg/yr
manufactured, imported, or processed at any time after your current or year, estimate the increase or decrease based upon the reporting year volume.    Manufacturing Importing Quantity (kg) Quantity (kg)   (kg)	kg/,yr
manufactured, imported, or processed at any time after your current or year, estimate the increase or decrease based upon the reporting year volume.    Manufacturing Importing Quantity (kg) Quantity (kg)   (kg)	
Manufacturing Importing Quantity (kg)  Amount of increase  Amount of decrease	
Quantity (kg) Quantity (kg) (Amount of increase  Amount of decrease	s production
Amount of decrease	Processing Quantity (kg)
•	441.6
•	
•	
•	
•	
•	
Mark (X) this box if you attach a continuation about	1

2,.09	substance durin	argest volume manufacturing or processing procese, specify the number of days you manufactured of the reporting year. Also specify the average s type was operated. (If only one or two operates	or processed number of h	the listed
<u>CBI</u>				
[_]			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured		
	,	Processed	250	.25
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		• •
	•	Manufactured		
		Processed	NA	
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured		
		Processed	NA	
2.10 CBI	State the maximusubstance that chemical.  Maximum daily in Average monthly		y of the is	ted a bulk kg
l <u> </u>	Hark (X) this bo	ox if you attach a continuation sheet.		· · · · · · · · · · · · · · · · · · ·

etc.). NA		Byproduct,	Concentration	Source o products
CAS No.	Chemical Name	Coproduct or Impurity <sup>1</sup>	(%) (specify ± % precision)	products _Impurit
		<del></del>	***************************************	***************************************
B = Byproduc: C = Coproduc:		e byproduct, copro	oduct, or impurit	y:
B = Byproduc	t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc: C = Coproduc:	t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc: C = Coproduc:	t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc: C = Coproduc:	t	e byproduct, copro	oduct, or impurit	y:

Product Types <sup>1</sup>	b. % of Quantity Manufactured, Imported, or Processed		c. % of Quantity Used Captively On-Site	d. Type of End-Use
x	100		100	I, CM
		_		
<pre>1 Use the following cod A = Solvent B = Synthetic reactan C = Catalyst/Initiato     Sensitizer D = Inhibitor/Stabili     Antioxidant E = Analytical reagen F = Chelator/Coagulan G = Cleanser/Detergen H = Lubricant/Frictio     agent I = Surfactant/Emulsi J = Flame retardant K = Coating/Binder/Ad</pre>	t r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antivear fier hesive and additives	L = M = N = O = O = P = Q = R = S = T = V = V = X = T = T = T = T = T = T = T = T = T	Moldable/Castable Plasticizer Dye/Pigment/Color Photographic/Repand additives Electrodeposition Fuel and fuel ad Explosive chemical Fragrance/Flavor Pollution control Functional fluid Metal alloy and Rheological modification of their (specify) Are of end-users:	als and additives chemicals chemicals and additives additives
<sup>2</sup> Use the following cod I = Industrial			•	

import, or process using corporate fiscal year. import, or process for substance used during the used captively on-site types of end-users for	If the listed substate For each use, spece each use as a perceine reporting year. as a percentage of each product type.	nce ify ntag Als the	at any time after the quantity you e of the total vo o list the quanti value listed unde	expect to manufacture, lume of listed ty of listed substance r column b., and the
a.	ь.		С.	d.
Product Types <sup>1</sup>	% of Quantity Manufactured, Imported, or Processed		% of Quantity Used Captively On-Site	Type of End-Users <sup>2</sup>
X	100		100	I, CM
<sup>1</sup> Use the following code	es to designate prod	luc t	types:	
A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Add	c/Accelerator/ cer/Scavenger/ c/Sequestrant c/Degreaser n modifier/Antiwear cier nesive and additives es to designate the	L = M = N = O = P = Q = R = V = V = V = X = type	Moldable/Castabl Plasticizer Dye/Pigment/Colo Photographic/Rep and additives Electrodepositio Fuel and fuel ad Explosive chemic Fragrance/Flavor Pollution contro Functional fluid Metal alloy and Rheological modi Other (specify) of end-users:	n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier Article-Flat proof tir
	corporate fiscal year. import, or process for substance used during to used captively on-site types of end-users for explanation and an exam  a.  Product Types  X   Product Types  X	corporate fiscal year. For each use, specimport, or process for each use as a perce substance used during the reporting year. used captively on-site as a percentage of types of end-users for each product type. explanation and an example.)  a. b.  % of Quantity Manufactured, Imported, or Product Types¹ Processed  X 100  100  1 Use the following codes to designate product types in the following codes to designate the type in the following	corporate fiscal year. For each use, specify import, or process for each use as a percentage substance used during the reporting year. Als used captively on-site as a percentage of the types of end-users for each product type. (Re explanation and an example.)  a. b.  3. dof Quantity Manufactured, Imported, or Product Types  A 100  100  1 Use the following codes to designate product  A = Solvent L = B = Synthetic reactant M = Sensitizer  C = Catalyst/Initiator/Accelerator/ N = Sensitizer  D = Inhibitor/Stabilizer/Scavenger/Antioxidant P = Chelator/Coagulant/Sequestrant R = C = Cleanser/Detergent/Degreaser S = H = Lubricant/Friction modifier/Antivear T = agent  I = Surfactant/Emulsifier V = J = Flame retardant V = J = Flame retardant K = Coating/Binder/Adhesive and additives X = CUse the following codes to designate the type I = Industrial CS = Consumer	A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sequestrant C = Chelator/Coagulant/Sequestrant E = Lubricant/Friction modifier/Antivear C = Cleanser/Detergent/Degreaser B = Surfactant/Emulsifier C = Catalyst/Initiator/Accelerator/ D = Inhibitor/Stabilizer/Scavenger/ Antioxidant C = Chelator/Coagulant/Sequestrant C = C

a.	b.	c. Average %	d.
Product Type <sup>1</sup>	Final Product's Physical Form <sup>2</sup>	Composition of Listed Substance in Final Product	Type of End-Users <sup>3</sup>
X	Н	< 0.01	I, CM
1 Use the following o	odes to designate pro	oduat tupas	
agent I = Surfactant/Emul J = Flame retardant K = Coating/Binder/  Use the following of A = Gas B = Liquid C = Aqueous solutio D = Paste E = Slurry F1 = Powder	lizer/Scavenger/ lizer/Scavenger/ gent ant/Sequestrant gent/Degreaser ion modifier/Antiwear sifier Adhesive and additive codes to designate the F2 = Cry F3 = Gra n F4 = Oth G = Gei H = Oth	U = Functional fluid V = Metal alloy and W = Rheological modi es X = Other (specify) e final product's physic estalline solid anules her solid her (specify) Article	rant/Ink and additerographic chemical n/Plating chemicals and additives chemicals chemicals and additives and additives additives additives fier Article—Flat proof
Use the following c I = Industrial CM = Commercial	odes to designate the CS = Cor H = Oth		

2.15 ÇBI	Circ.	le all applicable modes of transportation used to deliver ed substance to off-site customers.	bulk shipments of	the
[_]	Truck	· · · · · · · · · · · · · · · · · · ·		(1)
		car		$\sim$
		e, Vessel		
	Pipel	line		_
	Plane	e		
		(specify)		_
				0
2.16 <u>CBI</u>	or pr of er	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for und use listed (i-iv).	e used by your cust	tomers egory
	Categ	gory of End Use		
	i.	Industrial Products		
		Chemical or mixture	and the second s	_ kg/yr
	•	Article	33/2	_ kg/yr
	ii.	Commercial Products		
		Chemical or mixture		_ kg/yr
		Article	110.4	_ kg/yr
	iii.	Consumer Products	/	
		Chemical or mixture		_ kg/yr
		Article		_ kg/yr
	iv.	<u>Other</u>		
		Distribution (excluding export)		kg/yr
		Export		
		Quantity of substance consumed as reactant		
		Unknown customer uses		
				_
( 1	Mark	(X) this box if you attach a continuation sheet.		

	A GENERAL DATA		
3.01 <u>CBI</u> []	Specify the quantity purchased and the average price for each major source of supply listed. Product tra The average price is the market value of the product substance.	e paid for the list des are treated as that was traded f	ed substance purchases. or the listed
	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.		
	The listed substance was transferred from a different company site.		. •
	The listed substance was purchased directly from a manufacturer or importer.		
	The listed substance was purchased from a distributor or repackager.		
	The listed substance was purchased from a mixture producer.	441.6	8.00
3.02 CBI	Circle all applicable modes of transportation used to your facility.  Truck		
CBI	Truck		(1
CBI	Truck		1
CBI	Truck  Railcar  Barge, Vessel		2
CBI	Truck  Railcar  Barge, Vessel  Pipeline	· · · · · · · · · · · · · · · · · · ·	
CBI	Truck  Railcar  Barge, Vessel  Pipeline  Plane	· · · · · · · · · · · · · · · · · · ·	
CBI	Truck  Railcar  Barge, Vessel  Pipeline	· · · · · · · · · · · · · · · · · · ·	
CBI	Truck  Railcar  Barge, Vessel  Pipeline  Plane	· · · · · · · · · · · · · · · · · · ·	
CBI	Truck  Railcar  Barge, Vessel  Pipeline  Plane	· · · · · · · · · · · · · · · · · · ·	
CBI	Truck  Railcar  Barge, Vessel  Pipeline  Plane	· · · · · · · · · · · · · · · · · · ·	

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags 1
		Boxes 2
		Free standing tank cylinders 3
		Tank rail cars 4
		Hopper cars 5
		Tank trucks 6
		Hopper trucks 7
		Drums
		Pipeline 9
		Other (specify)
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
		Tank cylinders mmHg
		Tank rail cars mmHg
		Tank trucks mmHg

average perc	If you obtain the listed substance in the form of a mixture, list the trade name(s) of the mixture, the name of its supplier(s) or manufacturer(s), an estimate of the average percent composition by weight of the listed substance in the mixture, and the amount of mixture processed during the reporting year.							
Trade Nam	<u>e</u>	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)				
Wingfil I	Part A.	ARNCO	4.0 ± 0.5	441.6-198				
	:							
				•				
	•							

State the quantity of the listed substance used as a raw material during reporting year in the form of a class I chemical, class II chemical, or pethodology the percent composition, by weight, of the listed substance.							
	Quantity Used (kg/yr)	% Composition by Weight of Listed Sub stance in Raw Materia (specify ± % precision					
Class I chemical	441.6	4.0 + 0.5					
Class II chemical		· .					
Polymer							

4	1			
	SEC	CTION 4 PHYSICAL/CHEMIC	CAL PROPERTIES	
Gener	ral Instructions:			
If you	ou are reporting on a mix at are inappropriate to	xture as defined in the mixtures by stating "NA	glossary, reply to que	estions in Section
notio	questions 4.06-4.15, if yee that addresses the in imile in lieu of answering	formation requested, you	u may submit a copy or	el, MSDS, or other reasonable
PART	A PHYSICAL/CHEMICAL DA	TA SUMMARY		;
4.01 <u>CBI</u>	substance as it is manusubstance in the final	rity for the three majo ufactured, imported, or product form for manuf or at the point you beg	processed. Measure thacturing activities. as	ne purity of the
ιյ		Manufacture	Import	Process
	Technical grade #1	% purity	% purity NA-	mixture % purity
	Technical grade #2	% purity	% purity	% purity
	Technical grade #3	% purity	% purity	% purity
		tity of listed substanc		ed or processed.
4.02	substance, and for eve an MSDS that you devel- version. Indicate whe appropriate response.	tly updated Material Sa ry formulation containi oped and an MSDS develo ther at least one MSDS	ng the listed substance ped by a different sou has been submitted by o	e. If you possess rce, submit your circling the
		• • • • • • • • • • • • • • • • • • • •		
		SDS was developed by yo		
	•	• • • • • • • • • • • • • • • • • • • •		
	Another source	• • • • • • • • • • • • • • • • • • • •		

25

[ ] Mark (X) this box if you attach a continuation sheet.

4											
4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.										
	Yes	· · · · · · · · · · · · · · · · · · ·			• • • • • • • • • • • • • • • • • • • •	1					
	No			••••••	•••••	(2					
CBI [_]	For each activity that u corresponding to each ph listed. Physical states the time you import or b manufacturing, storage, final state of the produ	ysical state of the for importing and pegin to process the disposal and transp	e listed sub processing e listed sub port activit	stance durir activities a stance. Phy ies are dete	ng the activi are determine asical states	ty d at for					
			Pny	sical State	e Liquified						
	<u>Activity</u>	Solid	Slurry	Liquid	Gas	Gas					
	Manufacture	1	2	3	4	5					
	Import	1	2	3	4	5					
	Process	1	2	(3)	4	5					
	Store	(1)	2	3	4	5					

[-]	Mark	(X)	this	box	if	vou	attach	а	continuation	sheet.
		· · · /				,	a	_		31100

Dispose

Transport

4.05 <u>CBI</u> [_]	percenta particle importing listed s	ge distribution of the sign of	ne listed subs meter. Measur ivities at the	substance exists in particulate form during any of the for each applicable physical state the size and the listed substance by activity. Do not include ter. Measure the physical state and particle sizes for ities at the time you import or begin to process the physical state and particle sizes for manufacturing tactivities using the final state of the product.					
	Physical State		Manufacture	Import	Process	Store	Dispose	Transport	
	Dust	<1 micron			NA				
		1 to <5 microns		-	<u>NA</u>	****			
		5 to <10 microns			A <i>M</i>			•	
	Powder	<1 micron			NA			-	
		1 to <5 microns			NA		****		
		5 to <10 microns	me yaya , yaya		AM		-		
	Fiber	<1 micron		-	NA			No. of the second	
		1 to <5 microns			NA				
		5 to <10 microns			NA			<u> </u>	
	Aerosol	<l micron<="" td=""><td></td><td></td><td>NA</td><td></td><td></td><td></td></l>			NA				
		1 to <5 microns			NA				
		5 to <10 microns			NA_				

 $[ \underline{ } ]$  Mark (X) this box if you attach a continuation sheet.

RT	A I	RATE CONSTANTS AND TRANSFORMATION PRODUCTS	NA-Mixture		
01	Inc	dicate the rate constants for the following	transformation proc	esses.	
	a.	Photolysis:			
		Absorption spectrum coefficient (peak)	· (1/M cm	) at	_ nm
		Reaction quantum yield, 6	•	_ at	_ nm
		Direct photolysis rate constant, $k_p$ , at	1/hr	1	atitud
	ь.	Oxidation constants at 25°C:		•	
		For <sup>1</sup> 0 <sub>2</sub> (singlet oxygen), k <sub>ox</sub>	•		_ 1/M
		For $RO_2$ (peroxy radical), $k_{ox}$			_ 1/M
	с.	Five-day biochemical oxygen demand, BOD <sub>5</sub>	• •		_ mg/l
	d.	Biotransformation rate constant:			
		For bacterial transformation in water, $k_b$ .	• •		1/hr
		Specify culture			
	e.	Hydrolysis rate constants:			
		For base-promoted process, $k_B$	•		_ 1/M
		For acid-promoted process, k,			
		For neutral process, $k_{_{\rm N}}$			
	f.	Chemical reduction rate (specify conditions			_
					<del></del>
	g.	Other (such as spontaneous degradation)	-	*	_
			The second secon	****	

[ ] Mark (X) this box if you attach a continuation sheet.

Groundwater									
Media Half-									
Groundwater	life (specif								
<del></del>		y units)							
Atmanhara									
Atmosphere									
Surface water									
Soil									
b. Identify the listed substance's known transformat life greater than 24 hours.	ion products	that have	e a half.						
	f-life ify units)		ledia						
		in							
		in							
NA-Mixtur 5.03 Specify the octanol-water partition coefficient, $K_{ou}$		at 25°C							
	Method of calculation or determination								
NA-Mixtur 5.04 Specify the soil-water partition coefficient, K <sub>d</sub>	re · · ·		at 25°C						
Soil type									
			*********						
5.UD Specify the organic carbon-water partition	Specify the organic carbon-water partition NA-Mixture								
coefficient, K	•	***************************************	at 25°C						
5.06 Specify the Henry's Lav Constant, H	<b>'e</b>								
3.00 Specify the Henry's Law Constant, H	-		ıtm-m³/mole						
[_] Mark (X) this box if you attach a continuation sheet.		<u> </u>							

Use the following codes to designate the type of test:  F = Flowthrough S = Static	Bioconcentration Factor	type of test used in deriving the NA-Mixture Species	
F = Flowthrough	bloconcentration ractor	species	<u>Test</u> <sup>1</sup>
F = Flowthrough			
F = Flowthrough			
F = Flowthrough			
F = Flowthrough			The same of the sa
F = Flowthrough	<sup>1</sup> Use the following codes to	designate the type of test:	<del></del>
S = Static			
	S = Static		

.04 CBI	For each market listed below, state the listed substance sold or transfe	the quantity sold and the to	otal sales value of orting year.
[_]		Quankity Sold or	Total Sales
	Market \	Transferred (kg/yr)	Value (\$/yr)
	Retail sales		
	Distribution \ Wholesalers \		
	Distribution - Retailers		
	Intra-company transfer		
/	Repackagers \	\	
	Aixture producers		
	Article producers	<u> </u>	<u> </u>
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		<del>                                     </del>
<b>\</b>	vener (spacify)		\
6.05	Substitutes List all known commer	cially feasible substitutes	that you know exist
	for the listed substance and state t feasible substitute is one which is	the cost of each substitute.	A commercially
CBI	in your current operation, and which performance in its end uses.	results in a final product	with comparable
[_]	Substitute	·	Cost (\$/kg)
	No substitutes currently know	w.	<u> </u>
		No. 1	
		4	
			•
		***************************************	
[_]	Mark (X) this box if you attach a co	ontinuation sheet.	

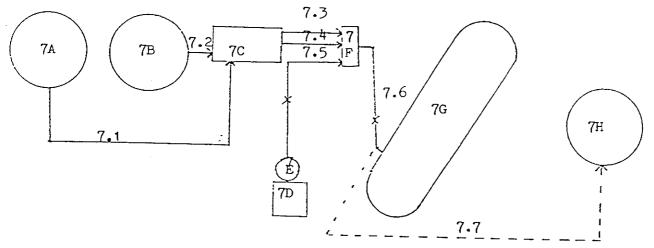
### General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the

## PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

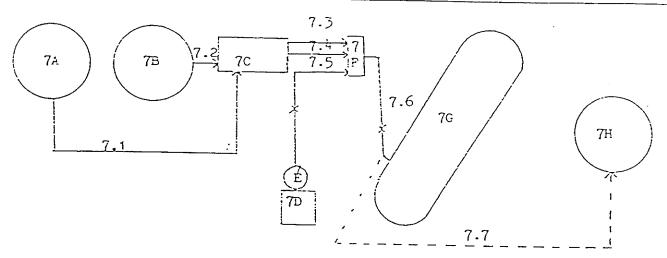
7H = Clean-out Solution Drum

<sup>[ ]</sup> Hark (X) this box if you attach a continuation sheet.

7.0) In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer 7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump 7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

<sup>[ ]</sup> Hark (X) this box if you attack a continuation sheet.

7.05	Describe each process stream identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.							
CBI								
[_]	Process type	• • • • • •	Batch - Polyurethane	Polymerization				
	Process Stream ID Code		Process Stream Description	Physical State <sup>1</sup>	Stream Flow (kg/yr)			
	7.1	TDI	Prepolymer	OL	441.6			
	7.3	TDI	Prepolymer	OL	441.6			
	7.6	Polyr	merizing Polyurethane	OL .	883.2			
		*****						
				***************************************				
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous l OL = Organic l IL = Immiscibl	ensible ndensib slurry iquid iquid	at ambient temperature le at ambient temperatur	sical state for each pro and pressure) re and pressure)				
[_]	Mark (X) this b	ox if y	ou attach a continuation	sheet.				

7,06 CBI	If a process block flow diagram is provided for more than one process type, photocop this question and complete it separately for each process type. (Refer to the							
[_]	Process type	Batch - P	ymerization					
	a.	b.	c.	d.	е.			
	Process Stream ID Code	Known Compounds	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)			
	7.1	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA			
		Petroleum Hydrocarbon	55 <sup>+</sup> 5.0 (E) (W) _	NA	NA			
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W) -	NA	NA			
	7.3	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA			
		Petroleum Hydrocarbon	55 = 5.0 (E) (W) _	NA	NA			
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W) = -	NA	NA			
	7.6	Polyurethane	(E)-(₩9	NA	NA NA			
		Toluene Diisocyanate	(E) (W)	NA	NA NA			
		Amine	(£) (w)	NA	NA NA			
7.06	continued be	lov						
[_]	Mark (X) thi	s box if you attach a co	ontinuation shee	21.				

#### NA

<sup>1</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

	Additive Package	(% or ppm)
1		
		4000000
*		manus proprieto de la companya de la
2		***************************************
3		
		**************************************
,		
4		77-746-14-14-14-14-14-14-14-14-14-14-14-14-14-
		****
5		
<sup>2</sup> Use the following codes	to designate how the concentration	was determined:
A = Analytical result E = Engineering judgement		
Use the following codes	to designate how the concentration	ı vas measured:
V = Volume V = Veight		
ark (Y) this hav if war -	ttach a continuation sheet.	

8.01 CBI	In accordance with the instructions, provide a residual treatment block flow diag which describes the treatment process used for residuals identified in question						
[_]	Process type	Batch - Polyurethane Polymerization					
		NA					
	•						•
		,					
				•			

8.05 CBI	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than or process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)						
[_]	Process	s type	Ba	tch - Polyure	thane Polymeri	zation	
	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Vaste	Physical State of Residual <sup>2</sup>	Known Compounds <sup>3</sup>	Concentra- tions (% or ppm) <sup>4</sup> ,5,6	Other Expected Compounds	Estimated Concen- trations (% or ppm)
 8.05	continu	ed below	<b></b>	- <b></b>			

### 8.05 (continued)

NA

<sup>1</sup>Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

<sup>2</sup>Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

S0 = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

8.05	(continued)
------	-------------

8.05

NA

<sup>3</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1		
		•
2		
3		
		<del></del>
4		
	40	
5		
,		
<sup>4</sup> Use the following codes to	designate how the concentra	tion was determined:
A = Analytical result		
E = Engineering judgement/	calculation	
		·
continued below		
Mark (X) this box if you at	tach a continuation sheet.	
	U-Marie A	

8.UD (continued)	8.05	(continued)
------------------	------	-------------

NA

 $^{5}$  Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

<sup>6</sup>Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit ( <u>t</u> ug/l)
1		•
2		•
3		
4		•
5		
6		

 $[\ \ ]$  Mark (X) this box if you attach a continuation sheet.

8.06	diagram process	(s). If a retype, photo	esidual trea copy this qu	atment block sestion and o	d in your residual flow diagram is p complete it separa ner explanation an	rovided for mo tely for each	re than one process
<u>CBI</u>							
[_]	Process	type	Ba	tch - Polyur	ethane Polymeriza	tion	
	а.	b.	c. NA	d.	е.	f. Costs for	g.
	Stream ID Code	Waste Description Code <sup>1</sup>	Management Method Code <sup>2</sup>	Residual Quantities (kg/yr)	Management of Residual (%) On-Site Off-Sit	Off-Site Management	Changes in Management Methods
							•
							•
				-			
					***************************************	-	
						· · · · · · · · · · · · · · · · · · ·	
			<del></del>				
	1						
	_				designate the was designate the man		
[ ]	Mark (X	) this box i	f you attac	h a continua	tion sheet.		

## WASTE DESCRIPTION CODES

These waste description codes were developed specifically for this survey to supplement the descriptions listed with the RCRA and other waste codes. (These waste description codes are not regulatory definitions.)

# WASTE DESCRIPTION CODES FOR HAZARDOUS WASTE DESCRIBED BY A SINGLE RCRA F, K, P, OR U WASTE CODE

A01	Spent	solvent	(F001	-F005.	K086)

A02 Other organic liquid (F001-F005, K086)

A03 Still bottom (F001-F005, K086) A04 Other organic studge (F001-F005, K086)

A05 Wastewater or aqueous mixture

A06 Contaminated soil or cleanup residue A07 Other Flor K waste, exactly as described

A08 Concentrated off-spec or discarded product

A09 Empty containers

""Exactly as described" means that the waste matches the description of the RCRA waste code.

A10 Incinerator ash

Att. Solidified treatment residue

Other treatment residue (specify in A12 "Facility Notes")

A13 Other untreated waste (specify in "Facility Notes")

INORGANIC LIQUIDS—Waste that is onmarily inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic CORLEGE

801 Aqueous waste with low solvents

802 Aqueous waste with low other toxic organics

803 Spent acid with metals

B04 Spent acid without metals

B05 Acidic aqueous waste

B06 Caustic solution with metals but no cyanides

807 Caustic solution with metals and cyanides

808 Caustic solution with cyanides but no metals

**B09** Spent caustic

B10 Caustic aqueous waste

811 Aqueous waste with reactive sulfides

B12 Aqueous waste with other reactives (e.g., explosives)

B13 Other aqueous waste with high dissolved solids

914 Other aqueous waste with low dissolved solids

B15 Scrubber water

B16 Leachate

817 Waste liquid mercury

B18 Other inorganic liquid (specify in "Facility

INORGANIC SLUDGES-Waste that is primarily inorganic, with moderate-to-high water content and low organic content; pumpable.

B19 Lime sludge without metals

B20 Lime sludge with metals/metal hydroxide sludge

B21 Wastewater treatment sludge with toxic organics

822 Other wastewater treatment sludge

823 Untreated plating sludge without cyanides

824 Untreated plating sludge with cyanides

B25 Other sludge with cyanides

826 Sludge with reactive sulfides

827 Sludge with other reactives

B28 Degreasing sludge with metal scale or filings

829 Air pollution control device sludge (e.g., fly ash, wet scrubber sludge)

830 Sediment or lagoon dragout contaminated with organics

831 Sediment or lagoon dragout contaminated with inorganics only

B32 Drilling mud

833 Asbestos slurry or sludge

**B34** Chloride or other brine sludge 835

Other inorganic studge (specify in

"Facility Notes")

INORGANIC SOLIDS—Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable.

836 Soil contaminated with organics

837 Soil contaminated with inorganics only

Ash, slag, or other residue from inciner-638 ation of wastes

839 Other "dry" ash, slag, or thermal residue

"Dry" lime or metal hydroxide solids 840 chemically "fixed"

"Dry" lime or metal hydroxide solids not **B41** "fixed"

**B42** Metal scale, filings, or scrap

Empty or crushed metal drums or containers

Batteries or battery parts, casings, cores

**B45** Spent solid filters or adsorbents

**B46** Asbestos solids and debns

847 Metal-cyanide salts/chemicals

848 Reactive cyanide salts/chemicals

**B49** Reactive sulfide salts/chemicals

850 Other reactive salts/chemicals R51 Other metal salts/chemicals

852 Other waste inorganic chemicals

853 Lab packs of old chemicals only

RS4 Lab packs of debns only

**RSS** Mixed lab packs

856 Other inorganic solids (specify in "Facility Notes")

INORGANIC GASES-Waste that is primarily inorganic with a low organic content and is a gas at almosphene pressure.

BS7 Inorganic gases

ORGANIC LIQUIDS-Waste that is primarily organic and is highly fluid, with few inorganic solids content and low-to-moderate water content

858 Concentrated solvent-water solution RSQ Halogenated (e.g., chlonnated) solvent

860 Nonhalogenated solvent 861 Halogenated/nonhalogenated solvent mixture

B62 Oil-water emulsion or mixture

B63 Waste oil

**B64** Concentrated aqueous solution of other organics

865 Concentrated phenolics

Organic paint, ink, lacquer, or varnish 866

B67 Adhesives or expoxies

868 Paint thinner or petroleum distillates

B69 Reactive or polymerizable organic liquid

Other organic liquid (specify in "Facility 870

ORGANIC SWDGES—Waste that is primarily organic, with low-to-moderate inorganic solics content and water content; pumpable.

Still bottoms of halogenated (e.g., chlorinated) solvents or other organic liquids

Still bottoms of nonhalogenated solvents or other organic liquids

873 Oily sludge

R74 Organic paint or ink studge

**B75** Reactive or polymerizable organics

676 Resins, tars, or tarry studge

877 Biological treatment sludge

678 Sewage or other untreated biological sludge

RM Other organic studge (specify in "Facility Notes")

ORGANIC SOLIDS—Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable.

Halogenated pesticide solid

Nonhalogenated pesticide solid

Solid resins or polymenzed organics

883 Spent carbon

Reactive organic solid 884

885 Empty fiber or plastic containers

886 Lab packs of old chemicals only 8.57 Lab packs of debns only

888 Mixed lab packs

889 Other halogenated organic solid

690 Other nonhalogenated organic solid

ORGANIC GASES—Waste that is primarily organic with low-to-moderate inorganic content and is a gas at atmospheric pressure.

891 Organic gases

# EXHIBIT 8-2. (Refers to question 8.06(c))

#### MANAGEMENT METHODS

MANAGEMENT	r methods
M1 = Discharge to publicly owned	Books of allows and Marth
wastewater treatment works	Recovery of solvents and liquid organics for reuse
M2 = Discharge to surface water under	1SR Fractionation
NPDES	2SR Batch still distillation
M3 = Discharge to off-site, privately	3SR Solvent extraction
ovned vastevater treatment works	4SR Thin-film evaporation
M4 = Scrubber: a) caustic; b) water;	5SR Filtration
c) other	6SR Phase separation
M5 = Vent to: a) atmosphere; b) flare;	7SR Dessication
c) other (specify)	8SR Other solvent recovery
M6 = Other (specify)	
TREATHENT AND RECYCLING	Recovery of metals  1MR Activated carbon (for metals
	Transfer Caroon (101 mccars
Incineration/thermal treatment	recovery) 2MR Electrodialysis (for metals
II Liquid injection	<pre>2MR Electrodialysis (for metals recovery)</pre>
2I Rotary or rocking kiln	3MR Electrolytic metal recovery
3I Rotary kiln with a liquid injection	4MR Ion exchange (for metals recovery)
unit	SMR Reverse osmosis (for metals
4I Two stage	recovery)
5I Fixed hearth	6MR Solvent extraction (for metals
6I Multiple hearth	recovery)
7I Fluidized bed	7MR Ultrafiltration (for metals
8I Infrared	recovery)
9I Fume/vapor	8HR Other metals recovery
10I Pyrolytic destructor	,
11I Other incineration/thermal	Wastewater Treatment
treatment	After each vastewater treatment type
Davis 6: 1	listed below (1VT - 66VT) specify
Reuse as fuel	<ul><li>a) tank; or b) surface impoundment</li></ul>
1RF Cement kiln	(i.e., 63VTa)
2RF Aggregate kiln	
3RF Asphalt kiln 4RF Other kiln	Equalization
5RF Blast furnace	1VT Equalization
6RF Sulfur recovery furnace	
7RF Smelting, melting, or refining	Cyanide oxidation
furnace	2VT Alkaline chlorination
8RF Coke oven	3VT Ozone
9RF Other industrial furnace	4VT Electrochemical
10RF Industrial boiler	SWT Other cyanide oxidation
11RF Utility boiler	Conoral evidation (including
12RF Process heater	General oxidation (including disinfection)
13RF Other reuse as fuel unit	6VT Chlorination
	7VT Ozonation
Fuel Blending	8VT UV radiation
1FB Fuel blending	9VT Other general oxidation
-	yer other general oxidation
Solidification	Chemical precipitation <sup>1</sup>
1S Cement or cement/silicate processes	10VT Lime
2S Pozzolanic processes	11VT Sodium hydroxide
3S Asphaltic processes	12VT Soda ash
4S Thermoplastic techniques	13VT Sulfide
5S Organic polymer techniques	14VT Other chemical precipitation
6S Jacketing (macro-encapsulation)	
7S Other solidification	Chromium reduction
	15WT Sodium bisulfite
	16VT Sulfur dioxide

#### EXHIBIT 8-2. (continued)

#### MANAGEMENT METHODS

17WT Ferrous sulfate 18WT Other chromium reduction

Complexed metals treatment (other than chemical precipitation by pH adjustment) 19WT Complexed metals treatment

Emulsion breaking 20VT Thermal 21VT Chemical 22VT Other emulsion breaking

Adsorption
23VT Carbon adsorption
24VT Ion exchange
25VT Resin adsorption
26VT Other adsorption

Stripping 27VT Air stripping 28VT Steam stripping 29VT Other stripping

Evaporation
30VT Thermal
31VT Solar
32VT Vapor recompression
33VT Other evaporation

Filtration
34WT Diatomaceous earth
35WT Sand
36WT Multimedia
37WT Other filtration

Sludge devatering
38VT Gravity thickening
39VT Vacuum filtration
40VT Pressure filtration (belt, plate and frame, or leaf)
41VT Centrifuge
42VT Other sludge devatering

Air flotation
43VT Dissolved air flotation
44VT Partial aeration
45VT Air dispersion
46VT Other air flotation

Oil skimming 47VT Gravity separation 48VT Coalescing plate separation 49VT Other oil skimming

Other liquid phase separation 50WT Decanting 51WT Other liquid phase separation

Biological treatment
52VT Activated sludge
53VT Fixed film-trickling filter
54VT Fixed film-rotating contactor
55VT Lagoon or basin, aerated
56VT Lagoon, facultative
57VT Anaerobic
58VT Other biological treatment

Other vastevater treatment
59VT Vet air oxidation
60VT Neutralization
61VT Nitrification
62VT Denitrification
63VT Flocculation and/or coagulation
64VT Settling (clarification)
65VT Reverse osmosis
66VT Other vastevater treatment

#### OTHER WASTE TREATMENT

1TR Other treatment 2TR Other recovery for reuse

#### ACCUMULATION

1A Containers 2A Tanks

#### STORAGE

1ST Container (i.e., barrel, drum) 2ST Tank 3ST Waste pile 4ST Surface impoundment 5ST Other storage

#### DISPOSAL

1D Landfill
2D Land treatment

3D Surface impoundment (to be closed as a landfill)

4D Underground injection well

Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH, THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60VT).

8.22 CBI	(by capacity):	nbustion chamber nainerators that oct or residual	are used on	-site to bur <b>h</b> a	the residuals id	argest entified in
[_]		Combustion Chamber Temperature (		Location of Temperature Monitor	Resid In Co	ence Time mbustion (seconds)
	Incinerator	Primary Seco	ndary Pri	ery Second	ary Primary	Secondary
	2			$\rightarrow$		
	3		<del>\</del> -	$- \downarrow$		
	by circin	if Office of Sol ng the appropria	id Waste survite response.	vey has been s	ubmitted in lied	of response
	Yes No					1
8.23 CBI	are asea ou-sid	llowing table fo e to burn the re flow diagram(s)	siduais ideni	argest (by cap ified in your	pacity) incinera process block o	tors that r residual
[_]		NA			Туре	s of
	Incinerator		Air Pollution Control Device	on ce	Emissio	ns Data lable
	1			<del></del>		
	3					
	Indicate	if Office of Sol ng the appropria	id Waste surv	vey has been s	ubmitted in lieu	of response
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	
		ing codes to des				
	S = Scrubber (	include type of : tic precipitator			omeror device.	
		ox if you attach		***		

#### PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

Da		intained for: Salaried	Year in Which Data Collection	Number of Years Reco
Data Element	Hourly Workers	Workers	Began	Are Mainta
Date of hire		X	NA	1986
Age at hire			NA	X
Work history of individual before employment at your facility	NA	NA	NA	NA
Sex		_×	NA	148
Race			NA	198
Job titles	X		NA	NA
Start date for each job title	X	X	NA	NA
End date for each job title	X	$\overline{X}$	NA	NA
Work area industrial hygiene monitoring data	NA	NA	NA	NA
Personal employee monitoring data	NA	NA	NA	NA
Employee medical history	NA	NA	NA	NA
Employee smoking history	NA	NA	<u>NA</u>	NA
Accident history	_X_		_NA	NA
Retirement date		X	NA	NA
Termination date	X	<u>X</u>	NA	NA
Vital status of retirees	NA	1/A	NA	NA
Cause of death data	NA	NA	NA	NA

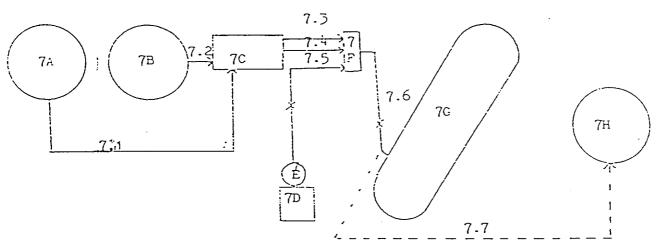
02 3 <u>I</u>	In accordance with the in which you engage.	e instructions, complete	the following ta	ble for ea	ach activity
_]	a.	b.	с.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hour
	Manufacture of the listed substance	Enclosed			
	listed substance	Controlled Release			
		0pen	distribution and the second se		
	On-site use as reactant	Enclosed	441.6		62.5
	reactant	Controlled Release			•
		Open			-
	On-site use as nonreactant	Enclosed			
	nome cae came	Controlled Release		**************************************	
		0pen			
	On-site preparation of products	Enclosed			1
		Controlled Release			
		0pen			***************************************
					•

9.03	Provide a descriptivencompasses workers listed substance.	e job title for each labor category at your facility that who may potentially come in contact with or be exposed to the
CBI		
[_]		
	Labor Category	Descriptive Job Title
	A	Certified Fleet Service Specialis
	В	Service MANAGEN
	С	
	D	
	E	•
	F	
	G	
	Н	
	I	
	J	
·····		

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

Note: All above is considered one work area

<u> </u>	7.02. Photocopy this	shown in the process block flow diagram in question 7.01 or squestion and complete it separately for each process type.
_]	Process type	Batch - Polyurethane Polymerization
	Work Area ID	Description of Work Areas and Worker Activities
	1	Pumping TDI/Amine solutions to mixer, filling tires through valve stem with polyurethane, and cleaning hosing with alcoho
	2	——————————————————————————————————————
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
		•

CBI	and complete	e it separately	for each proce	ess type and w	ance. Photocopy t ork area.	cmis question		
[_]	Process type	e	Batch - Poly	urethane Polym	nerization			
	Work area .	Work area						
	Labor Category	Number of Workers Exposed	Mode of Exposur (e.g., dire skin contac	ect List	of Length of ed Exposure	Number o Days per Year Exposed		
	therty _		= skin-		A A	25		
	Howly	2	skin	Tol	'- A	<b>350</b>		
						•		
		-						
	-							
		•						
	<sup>1</sup> Use the fo	lloving codes t of exposure:	o designate th	e physical sta	te of the listed :	substance at		
		(condensible at		SY = Sludge				
	GU = Gas	erature and pre (uncondensible	at ambient	AL = Aqueou OL = Organi	c liquid			
		erature and pre udes fumes, vap		<pre>IL = Immiscible liquid      (specify phases, e.g.,</pre>				
	SO = Soli			90% ⊍a	ter, 10% toluene)			
	<sup>2</sup> Use the fo	lloving codes t	o designate av	erage length o	f exposure per da	y:		
		utes or less r than 15 minut	es but not		than 2 hours, bu	t not		
	exceed	ing 1 hour		E = Greater	than 4 hours, bu	t not		
		r than one hour ing 2 hours	, out not		ng 8 hours than 8 hours			

<u>.                                    </u>	4							
.07 BI	Weighted Average (TW	ory represented in question 9.06, A) exposure levels and the 15-min ion and complete it separately for	nute peak exposure levels.					
<del></del> 	_	Potob Polymentham Dalam						
]	Process type Batch - Polyurethane Polymerization							
	Work area	· · · · · · · · · · · · · · · · · · ·	1					
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)					
	*	*	*					
			The state of the s					
			<u> </u>					
			<u> </u>					
			•					
* No	tests have been condu	acted						
		·						

[\_] Mark (X) this box if you attach a continuation sheet.

.08 st	If you monitor worker exposure to the listed substance, complete the following table.  No monitor worker exposure available							
BI ]								
	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples <sup>1</sup>	Analyzed In-House (Y/N)	Number of Years Records Maintained	
	Personal breathing zone							
	General work area (air)				-			
	Vipe samples	. 102333					•	
	Adhesive patches	-						
	Blood samples						-	
	Urine samples	-						
	Respiratory samples							
	Allergy tests							
	Other (specify)							
	Other (specify)							
	Other (specify)							
	<sup>1</sup> Use the following of A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify)	l hygieni er		o takes the	monitori	ng samples:		

[]	Sample Type		Sampling and Analy	tical Methodolog	gy				
		NA							
.10	If you conduct person specify the following	nal and/or ambie g information fo	ent air monitoring for each equipment ty	for the listed so	ubstance, •				
BI		Do not conduc	t	Averaging					
_]	Equipment Type <sup>1</sup>	Detection Limi	Manufacturer	Time (hr)	Model Numbe				
					**************************************				
		_							
	-								
	<sup>1</sup> Use the following co	odes to designat	e personal air moni	toring equipmen	t types:				
	A = Passive dosimeter B = Detector tube								
	C = Charcoal filtra	tion tube with p	oump						
	D = Other (specify)  Use the following codes to designate ambient air monitoring equipment types:								
	E = Stationary moni	tors located wit	thin work area		-37				
	<pre>F = Stationary monitors located within facility G = Stationary monitors located at plant boundary</pre>								
	<pre>H = Mobile monitoring I = Other (specify)</pre>	ng equipment (sp	pecify)		TT & Andrew				
	<sup>2</sup> Use the following co			ınits:	~=				
	A = ppm								
	B = Fibers/cubic cer C = Micrograms/cubic	ntimeter (f/cc) c meter (µ/m³)							

		o tests	conducted		Fre	quency	
<u>Test De</u>	scription			(weekl	y, month	ly, yearly	, etc.
 		<u> </u>					
	······································	<del>., .,</del>					
				<del>*************************************</del>			
g"							
			·				

9.12	Describe the engineering control to the listed substance. Phoprocess type and work area.	rols that you tocopy this o	use to reduce o uestion and comp	r eliminate wor lete it separat	ker exposure ely for each
CBI		N	one T		
[_]	Process type	Batch -	Polyurethane Poly	merization	V-11-12-12-12-12-12-12-12-12-12-12-12-12-
	Work area	• • • • • • • • • • • • • • • • • • • •		1	
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust				•
	General dilution				
	Other (specify)				
	Vessel emission controls				
	Mechanical loading or packaging equipment				
	Other (specify)				
	•				
*	Not aware that any engineering	controls are	needed		
,	Not aware that any engineering	controls are	needed		

 $[ \ ]$  Mark (X) this box if you attach a continuation sheet.

1	Describe all equipment or process modifications you have prior to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modithe percentage reduction in exposure that resulted. Photomplete it separately for each process type and work are	tion of worker exposure t fication described, state ocopy this question and
I	Process type Batch - Polyurethane Polymeriza	tion
,	Jork area	1
_	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
-		
-		
-		
-		
	No Modifications	

 $[ \underline{ } ]$  Mark (X) this box if you attach a continuation sheet.

	1			
PART	D PERSONAL PROTECTIV	YE AND SAFETY EQUIPMENT		
9.14 CBI	in each work area in	al protective and safety equing order to reduce or eliminately this question and complete	te their exposure to	the listed
[_]	Process type	. Batch - Polyurethane	Polymerization	
	Work area	•••••		1
		Equipment Types	Wear or Use (Y/N)	
		Respirators		
		Safety goggles/glasses	<del>-9</del>	
		Face shields	<del>-9</del>	
		Coveralls	- <del>/</del>	
		Bib aprons	<u>-N</u>	
		Chemical-resistant gloves		
	•	Other (specify)		
		Billion and the state of the st		

[ ] Mark (X) this box if you attach a continuation sheet.

]	Process type Batch - Polyurethane Polymerization							
	Work Area	Respirator Type		verage Usage	Fit Tested (Y/N)	Type of Fit Test <sup>2</sup>	Frequency Fit Tests (per year	
		NA		C	N	OL	_WA	
			<del>-</del>	<del></del>	***	<del></del>		
_								
	<sup>1</sup> Use the fol	llowing codes to de	signate a	ıverage u	sage:			
	A = Daily B = Weekly C = Monthly D = Once a E = Other (	y year			٠			
	<sup>2</sup> Use the fol	llowing codes to de	esignate (	the type	of fit tes	st:		
	QL = Qualit QT = Quanti							

9.15 If workers use respirators when working with the listed substance, specify for each

).19 <u>:BI</u>	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.										
<u>_</u> ]	Process type Batch - Polyurethane Polymerization  Work area										
	Area is not restr	icted									
		-A			•						
				·····							
9.20	Indicate (X) how often you perform each housekeeping task used to clean up routine leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area.										
		Ratch - Doliningt	יושמוותט ממנה	Process type Batch - Polyurethane Polymerization  Work area							
		•••••••	1-2 Times	1 3-4 Times	More Than 4 Times Per Day						
	Work area	Less Than	1-2 Times	1 3-4 Times							
	Work area	Less Than	1-2 Times	1 3-4 Times							
	Work area  Housekeeping Tasks  Sweeping	Less Than Once Per Day	1-2 Times	1 3-4 Times	More Than 4 Times Per Day						
	Work area  Housekeeping Tasks  Sweeping  Vacuuming	Less Than Once Per Day X NA	1-2 Times	1 3-4 Times							
	Work area  Housekeeping Tasks Sweeping Vacuuming Vater flushing of floors	Less Than Once Per Day X NA	1-2 Times	1 3-4 Times							
	Work area  Housekeeping Tasks Sweeping Vacuuming Vater flushing of floors	Less Than Once Per Day X NA	1-2 Times	1 3-4 Times							
	Work area  Housekeeping Tasks Sweeping Vacuuming Vater flushing of floors	Less Than Once Per Day X NA	1-2 Times	1 3-4 Times							
	Work area  Housekeeping Tasks Sweeping Vacuuming Vater flushing of floors	Less Than Once Per Day X NA	1-2 Times	1 3-4 Times							

9\21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
`	Yes
	No
	Yes
	No
	If yes, where are copies of the plan maintained?
\	Routine exposure:
	Emergency exposure:
9.22	Do you have a written look and anill alcours also about addresses the listed
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes
	No)
	If yes, where are copies of the plan maintained?
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes
	No
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant\safety specialist\1
	Insurance carrier
	OSHA consultant
	Other (spedify)4
11	Mark (X) this box if you attach a continuation sheet.
()	mark (n) this ook it you attach a continuation sheet.

## SECTION 10 ENVIRONMENTAL RELEASE

#### General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A	GENERAL INFORMATION
10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area 2
	Residential area 3
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility 8
	Within 1 mile of a non-navigable waterway 9
	Other (specify)

10.02	Specify the exact location of your is located) in terms of latitude and (UTM) coordinates.	d longitude or Uni	versal Transverse	e Mercader
	Latitude	•••••	39 . 06	12
	Longitude	•••••	094 . 34	. 57
	UTM coordinates Zone _	, North	ing, Eas	sting
10.03	If you monitor meteorological condition the following information.	tions in the vicin	ty of your facil	lity, provide
	Average annual precipitation			inches/yea
	Predominant wind direction			•
_				
10.04	Indicate the depth to groundwater be	elow your facility	•	
10.04	Indicate the depth to groundwater be	_		merore
10.04	Indicate the depth to groundwater be	_		meters
10.05 CBI	Depth to groundwater  For each on-site activity listed, in listed substance to the environment. Y, N, and NA.)	ndicate (Y/N/NA) a	ll routine releas	ses of the a definition
10.05 CBI	Depth to groundwater  For each on-site activity listed, in listed substance to the environment.	ndicate (Y/N/NA) a	ll routine releas	ses of the a definition
10.05 CBI	Depth to groundwater  For each on-site activity listed, in listed substance to the environment. Y, N, and NA.)	ndicate (Y/N/NA) a . (Refer to the i	ll routine releas nstructions for a ironmental Releas	ses of the a definition
10.05 CBI	Depth to groundwater  For each on-site activity listed, in listed substance to the environment. Y, N, and NA.)  On-Site Activity	ndicate (Y/N/NA) a . (Refer to the i Env	ll routine releas nstructions for a ironmental Releas Water	ses of the a definition se
10.05 CBI	Depth to groundwater  For each on-site activity listed, in listed substance to the environment. Y, N, and NA.)  On-Site Activity  Manufacturing	ndicate (Y/N/NA) a . (Refer to the i Env Air NA	ll routine releasinstructions for a structions for a structions for a struction water NA	ses of the a definition se Land
10.05 CBI	Depth to groundwater  For each on-site activity listed, in listed substance to the environment. Y, N, and NA.)  On-Site Activity  Manufacturing  Importing	endicate (Y/N/NA) a  (Refer to the i  Env  Air  NA  NA	ll routine releas nstructions for a ironmental Releas Water NA	ses of the a definition of the se Land NA
10.05 CBI	Pepth to groundwater  For each on-site activity listed, in listed substance to the environment. Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing	endicate (Y/N/NA) a  (Refer to the i  Env  Air  NA  NA  NA	ll routine releas nstructions for a ironmental Releas Water NA NA NA	ses of the a definition of the see Land NA NA NA
10.05 CBI	Depth to groundwater  For each on-site activity listed, in listed substance to the environment. Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used	ndicate (Y/N/NA) a (Refer to the i Env Air NA NA NA NA NA	ll routine releas nstructions for a ironmental Releas Water NA NA NA NA NA	ses of the a definition of the se Land NA NA NA NA

10.06	Provide the following information for the listed s of precision for each item. (Refer to the instruction example.)	substance and s tions for furt	pecify the level her explanation a	and
CBI				
[_]	Quantity discharged to the air	NA	kg/yr <u>+</u>	%
	Quantity discharged in wastewaters	NA	kg/yr <u>+</u>	%
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr <u>+</u>	%
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NA	kg/yr <u>+</u>	%
			-	
				•

 $[ \ ]$  Mark (X) this box if you attach a continuation sheet.

on Percent Efficienc
Percent Efficienc

10.09 Poi sub. CBI res sou [ ] sou	stance in terms of idual treatment blo rce. Do not includ rces (e.g., equipme	Identify each emission point source containing the listed a Stream ID Code as identified in your process block or ck flow diagram(s), and provide a description of each point e raw material and product storage vents, or fugitive emission nt leaks). Photocopy this question and complete it separately
for	each process type.	Batch - Polyurethane Polymerization
	t Source D Code	Description of Emission Point Source
		NA NA
	<del> </del>	
	· · · · · · · · · · · · · · · · · · ·	

		Stack	NA				
Point Source ID Code	Stack Height(m)	Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)	Building Width(m) <sup>2</sup>	Ver <u>Ty</u>
				******		***************************************	
	~~~						
		•					
				**************************************			
					-		-
·							
 <sup>1</sup> Height o	of attached	or adjacent	building				
<sup>2</sup> Width of	attached o	or adjacent	building				
<sup>3</sup> Use the	following	codes to des	ignate vent	type:			
H = Hori V = Vert							
			·				

.0.12 CBI	distribution for each Point Sour	ed in particulate form, indicate the particle size ce ID Code identified in question 10.09. lete it separately for each emission point source.					
	Point source ID code	NA					
	Point source ID code						
	Size Range (microns)	Mass Fraction (% ± % precision)					
	< 1						
	≥ 1 to < 10						
	≥ 10 to < 30						
	≥ 30 to < 50						
	≥ 50 to < 100						
	≥ 100 to < 500						
	≥ 500						
		Total = 100%					
	·						

10.13	Equipment Leaks Complete types listed which are expe- according to the specified the component. Do this for residual treatment block fi not exposed to the listed of process, give an overall per exposed to the listed substant	weight percest each procest low diagram(stance. I	nt of the stype in the stype in this in the per	bstance and a listed of includes a batch	nd which a substance in your p e equipmen or intern	passing process but types	rvice through lock or that are operated
CBI	for each process type.	111000	сору спі.	s questro	n and comp	piete it :	separately
[_]	Process type Bat	ch - Polyure	thane Pol	lymerizati	ion		
	Percentage of time per year type	that the li	sted sub	stance is	avposed	to this p	
		Number	of Compos	nents in d	Service b	Veight Coss Street	Percent.
	Equipment Type	Less than 5%	5-10%		26-75%	76-99%	Greater than 99%
	Pump seals <sup>1</sup>		2 10%	11-23%	20-15%	10-33%	than 99%
	Packed						
	Mechanical		-		-		
	Double mechanical <sup>2</sup>		-	<del></del>			•
	Compressor seals <sup>1</sup>			-	-		*
	Flanges		<del></del>				
	Valves						****
	Gas <sup>3</sup>						
	Liquid	***************************************					
	Pressure relief devices (Gas or vapor only)						•
	Sample connections						
	Gas						
	Liquid						<del></del>
	Open-ended lines <sup>5</sup> (e.g., purge, vent)						
	Gas						
	Liquid						
	<sup>1</sup> List the number of pump an compressors	d compressor	seals,	rather th	an the nu	mber of p	umps or
0.13	continued on next page						

10.13	(continued)										
	<sup>2</sup> If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively										
	<sup>3</sup> Conditions existing in th	<sup>3</sup> Conditions existing in the valve during normal operation									
	<sup>4</sup> Report all pressure relie control devices			equipped with							
	<sup>5</sup> Lines closed during norma operations	l operation that wou	ld be used during	maintenance							
10.14 <u>CBI</u>	Pressure Relief Devices wi pressure relief devices id devices in service are con enter "None" under column	entified in 10.13 to trolled. If a press	indicate which pr	ressure relief .							
[_]	a. NA Number of Pressure Relief Devices	b. Percent Chemical in Vessel	c. Control Device	d. Estimated Control Efficiency <sup>2</sup>							
	Refer to the table in ques heading entitled "Number o Substance" (e.g., <5%, 5-1	I Components in Serv	d the percent rangice by Weight Per	ge given under the cent of Listed							
	<sup>2</sup> The EPA assigns a control with rupture discs under n efficiency of 98 percent f conditions	ormal operating cond	itions. The EPA :	assigns a control							
[]	Mark (X) this box if you at	tach a continuation	sheet.								

10.15 CBI	Equipment Leak Detec place, complete the procedures. Photocotype.	following table reg	arding thos	se leak dete	ection and re	epair
[ <u></u> ]	Process type	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	Batch - Po	olyurethane I	Polymerizatio
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device			Repairs Completed (days after initiated)
	Pump seals Packed Mechanical Double mechanical Compressor seals Flanges Valves					•
	Gas Liquid Pressure relief devices (gas or vapor only)			***************************************		-
	Sample connections Gas Liquid Open-ended lines Gas Liquid					
	<sup>1</sup> Use the following c POVA = Portable org FPM = Fixed point m O = Other (specify)	anic vapor analyzer onitoring	-			

	Mark	CBI	or res.	iddai (IC	atment block	LION GAUGAGE	.(3).				Operat	-				
	k (X) thi	[_]	Vessel Type	Floating Roof Seals <sup>2</sup>	Composition of Stored Materials	(liters		Vessel Filling Duration (min)	Vessel Inner Diameter (m)		Volume	Vessel Emission Controls	Design Flow Rate	Vent Diameter (cm)	Control Efficiency (%)	Basis for Estimate
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120	nuat		{\frac{1}{2}}	ne follow	ing codes to	designate ve	ssel typ	 e:	²Use	the fo	llowing	codes to	 designa	 te floatin	g r∞f seal	s:
	ion sheet.		F : CIF : NCIF : EFR : P : H :	Fixed re Contact Noncontact External	oof internal flo act internal l floating ro e vessel (ind tal	nating roof floating roo oof	of		MS2 MS21 LM1 LM2 LMW VM1 VM2	= Sho R = Rim = Liq = Rim = Wea = Vap = Rim	e-mounte mounted uid-mounted mounted ther shi or moun mounted	ted resili d secondar	ry ient fil ent fil			
			,								ther sh					
				_	t percent of	the listed s	rubs tance	. Include	e the tota	l volat	ile orga	anic conte	nt in pa	arentnesis		
					ating roofs					13	1 6 .	<b>0</b>				
				•	rate the emi							riow rate	units)			
					ing codes to	designate ba	sis for	estimate o	or control	errici	ency:					
				alculation	ns											

### PART E NON-ROUTINE RELEASES

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
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2		V	and the second	<del>•</del> •••••••••••••••••••••••••••••••••••
3		<b>/</b>	OF THE PROPERTY OF THE PROPERT	
4	1	\		
5				•
6				

10.24 Specify the weather conditions at the time of each release. Wind Speed Wind Humidity Temperature Precipitation Ralease (km/hr) Direction (°C) (Y/N)1 2 3 4 6

 $[\ ]$  Mark (X) this box if you attach a continuation sheet.



CONTAINS NO CBI

## HATERIAL SAFETY DATA SHEET

REVISION DATE \_\_\_\_ June 4 \_\_\_\_. 1986

## I. GENERAL INFORMATION

CHEHICAL NAME : WING-FIL COMPONENT "A"

: TDI Prepolymer plus Petroleum Hydrocarbon

CHEHICAL FAHILY : Isocyanate Prepolymer and Petroleum Hydrocarbon

: Proprietary

DOT HAZARD CLASS : UN2078 (TDI)

HANUFACTURER : ARNCO, 5141 Firestone Place, South Gate, CA 90280-3570

Phone No: (213)567-1378

CHEMTREC Phone No: (800)424-9300 District of Columbia: (202)483-7616

## II. INGREDIENTS

Components	onents TLV Point Point oF		Boiling Point OF	Vapor Press. mm Hg	Vapor Dens. (Air=1)	Flammable Limit LEL UEL
TDI Prepolymer	0.02ppm 0.2mg/m3	Not Estab.	Not Estab.	0.02 @77°F.	6.0	Not Estab.
Petroleum Hydrocarbon	0.2mg/m <sup>3</sup> TWA-ACGIH	>300	>550	<1.0 @68°F.	<0.1	No Data Avaílable

## III. PHYSICAL DATA

BOILING POINT (°F) : 464 VAPOR PRESSURE (mm Hg) VAPOR DENSITY (Air=1) SOLUBILITY IN WATER. X

: SEE SECTION II

: SEE SECTION II

: Insoluble. Reacts with water to liberate CO2 gas.

APPEARANCE & ODOR

SPECIFIC GRAVITY (H20=1)

: Dark brown liquid. Sharp pungent odor. : 1.01

VOLATILE BY VOLUME

: Negligible

EVAPORATION RATE (Ether=1): Not Established

## IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (°F) : 320

FLAMMABLE LIMITS : Not Established

EXTINGUISHING MEDIA : Dry chemical, chemical foam, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full emergency equipment with self-contained pressure-demand breathing apparatus. Use water to cool fire-exposed containers. Eliminate all sources of ignition.

UNUSUAL FIRE & EXPLOSION HAZARDS: During a fire, toxic gases are genererated. Closed containers may explode from extreme heat or from water contamination. DO NOT reseal water-contaminated containers, as pressure buildup up may cause violent rupture of the container.

## V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 0.02 ppm; 0.2 mg/m<sup>3</sup>

## SYMPTOMS OF EXPOSURE:

INHALATION: Hay cause dizziness and nausea. Irritation of the upper and lower respiratory tract. Some individuals may develop isocyante hypersensitization and must avoid further exposure to even low isocyanate levels. Inhalation of mists may present a cancer hazard. Sinusitis, brochitis, asthma, and impaired ventilatory capacity can occur in some individuals.

INGESTION: Irritation and corrosive action in the mouth, stomach and digestive tract. Possibly liver toxicity. Aspiration into the lungs can cause chemical pneumonitis which can be fatal.

EYES: Liquid, vapors, or mist can cause sever irritation, redness, tearing, blurred vision and possibly irreversible damage to the eye.

SKIN: Irritation and allergic sensitivity may occur for some individuals, producing reddening, swelling or blistering, and skin sensitization, possibly resulting in dermatitis. This product contains petroleum oils similar to those catogarized by the International Agency for Research on Cancer (IARC) as causing skin cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by using recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

#### CONTESS

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# V. HEALTH HAZARD DATA (continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing unspecific bronchial hypersensitivity and, potentially, any allergies.

PRIMARY ROUTES OF ENTRY: Inhalation and skin contact.

## EMERGENCY FIRST AID:

INHALATION: Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, apply artificial respiration, and get medical attention immediately. NOTE TO PHYSICIAN: Treat symptomatically: bronchodilators; oxygen.

INGESTION: DO NOT INDUCE VOMITING. Aspiration can be fatal. Give a glass of milk or water, keep patient quiet and warm, and get prompt medical attention.

EYES: Flush immediately with water for at least 15 minutes, occasionally lifting the eyelid, and get prompt medical attention.

SKIN: Remove contaminated clothing and launder before reuse. Wash affected skin with soap and water. Consult a physician if swelling or reddening occurs.

# VI. REACTIVITY DATA

STABILITY: Stable under normal, recommended storage conditions.

CONDITIONS TO AVOID: Open flame and storage temperatures above 120°F

INCOMPATIBILITY: Haterials to avoid are water. alcohols, ammonia, amines, and alkalis. Contaminated containers should be left vented and be moved to a safe area for neutralization and proper disposal.

HAZARDOUS POLYMERIZATION: Hay occur.

CONDITIONS TO AVOID: Exposure to high temperature, or resealing of containers contaminated with materials listed under INCOMPATIBILITY (materials to avoid).

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides, sulfur oxides, unidentified organic compounds, and traces of hydrogen cyanide (HCN).

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# VII. ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE: Evacuate and ventilate the area. Eliminate all sources Respiratory protection must be worn during cleanup. Cover the spill with sawdust, vermiculite, or other absorbent material. Scoop and place in open container and remove to well ventilated area to be treated with a decontamination solution made up of 20% Tergitol TMN-10 (Union Carbide) and 80% water; or 5% concentrated ammonia, 2% detergent, and 93% water. Leave the container open for 24-48 hours. Wash down the spill area with decontamination solution. For major spills call CHEMTREC: (800)

WASTE DISPOSAL HETHOD Decontaminated waste must be disposed of in accordance with Federal, State, and local environmental control regulations. It is your duty to comply with the Clean Air Act, Clean Water Act, and Resources Conservation and Recovery Act.

# VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Chemical workers goggles or full-face shield. lenses should not be worn in or near work area. Contact

RESPIRATORY PROTECTION: HSHA/NIOSH approved positive-pressure air-supplied respirator with full-face shield. Organic vapor filters are not effective against TDI vapor. The vapor pressure of TDI is such that at normal temperatures, vapor concentration in the air will exceed the TLV of 0.02 ppm.

SKIN PROTECTION: Impervious, chemical resistant (natural rubber) gloves, arm covers, aprons or coveralls, boots and caps.

VENTILATION RECOMMENDED: General mechanical ventilation and local exhaust. to maintain vapor concentration below the TLV.

OTHER PROTECTION: Safety showers and eye wash stations must be easily accessible. Provide a dry nitrogen blanket in bulk storage tanks.

## IX. SPECIAL PRECAUTIONS

HYGIENIC PRACTICES IN HANDLING & STORAGE: Store below 100°F, preferably below 90°F, in tightly-closed containers to prevent atmospheric moisture contamination. DO NOT reseal if contamination is suspected. DO NOT store near open flame or high heat.

Wear protective equipment to prevent eye and skin contact. DO NOT breath vapors. Wash hands before eating or smoking.

Since emptied containers retain product residues (vapor or liquid), all hazard precautions given in this MSDS must be observed. For proper container disposal, fill with water and allow to stand unsealed for at least 48 hours then dospose of in accordance with Federal. State and local environmental control regulations.

THE INFORMATION IN THIS HSDS IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF ARNCO. THE DATA ON THIS MSDS RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. ARNCO ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS DATA.

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# GOODYEAR COMMERCIAL TIRE & SERVCIE CENTERS

A DIVISION OF

THE GOODYEAR TIRE & RUBBER COMPANY

1501 North Corrington KANSAS CITY, MO 64120

Document processing Center Office of Toxic Substances, TS-790 US Environmental Protection Agency 401 M Street, SW Washington, DC 20460



Fold at line over top of envelope to the righ of the return address.

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